

United States Patent and Trademark Office



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/813,313	10/813,313 03/30/2004		Po-Sheng Shih	DEE-PT068.1	3639
3624	7590	01/07/2005	EXAMINER		INER
	ND KOENIG		CHOWDHURY, TA	CHOWDHURY, TARIFUR RASHID	
	LAZA, SUITI 17TH STREI		ART UNIT	PAPER NUMBER	
PHILADELPHIA, PA 19103				2871	
				DATE MAILED: 01/07/2009	5

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/813,313	SHIH ET AL.				
Office Action Summary	Examiner	Art Unit				
	Tarifur R Chowdhury	2871				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time y within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from the application to become ABANDONE.	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on						
2a) ☐ This action is FINAL . 2b) ☑ This	action is non-final.					
3) Since this application is in condition for alloward closed in accordance with the practice under E	•					
Disposition of Claims						
 4) Claim(s) 1-16 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) 1.3-12 and 16 is/are rejected. 7) Claim(s) 2 and 13-15 is/are objected to. 8) Claim(s) are subject to restriction and/o 	wn from consideration.					
Application Papers						
9) The specification is objected to by the Examine	er.					
10)⊠ The drawing(s) filed on 30 March 2004 is/are:	☐ The drawing(s) filed on <u>30 March 2004</u> is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	• • • • • • • • • • • • • • • • • • • •	· · · · · · · · · · · · · · · · · · ·				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list 	s have been received. s have been received in Applicati nty documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage				
Attachment(s)						
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da					
2) ☐ Notice of Draitsperson's Patent Drawing Neview (P10-940) 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>08/09/04</u> .		atent Application (PTO-152)				

Art Unit: 2871

DETAILED ACTION

Specification

1. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

Claim Objections

2. Claim 3 is objected to because of the following informalities: In claim 3, line 2, "said plurality of sub-electrodes" lack antecedent basis. Appropriate correction is required.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 4. Claims 1-10 are rejected under 35 U.S.C. 102(e) as being anticipated by Lee, US 2003/0112397.

The applied reference has a common assignee with the instant application.

Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome

Application/Control Number: 10/813,313

Art Unit: 2871

either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

Lee discloses (page 3, paragraph's 0049, 0051 and 0052; page 4, paragraph 0057) and shows in Fig. 1, a liquid crystal display comprising:

- a first substrate (10) comprising a first electrode (12) made of a transparent material:
- a second substrate (11) comprising thereon a second electrode (13) made of
 a transparent material having at least one elongate hole (16) having a
 longitudinal direction and facing to the first electrode (12) and the second
 electrode (13) is supplied by a pixel voltage;
- a third electrode (18) made of an opaque material positioned under the at least one hole (16) and between the second electrode (13) and the second substrate (11) and the third electrode is supplied by a bias voltage; and
- a liquid crystal layer (100) comprising a plurality of liquid crystal molecules
 (101) and interposed between the first substrate (10) and the second substrate (11),

wherein an interval between the pixel voltage and the bias voltage is for preventing the liquid crystal molecules rotating reversely.

Lee also shows in Figs. 1 and 3 that the second electrode (13) is divided into plurality of sub-electrodes by a plurality of slits (16').

Accordingly, claims 1, 3, 4 and 9-11 are anticipated.

Application/Control Number: 10/813,313

Art Unit: 2871

As to claim 5, Lee discloses (page 3, paragraph 0049) that the liquid crystal molecules are negative dielectric anisotropy material.

As to claims 6 and 12, Lee also discloses (page 3, paragraph 0050) that the second substrate (11) further comprises a switching element (TFT) connected to the pixel electrode (13) (applicant's second electrode).

As to claim 7, Lee also shows in Fig. 7 and discloses (page 4, paragraph 0057) that the third electrode (18) is connected to an independent electrode (19).

As to claim 18, Lee shows in Fig 3 and discloses (page 3, paragraph 0054) that the third electrode (18) is connected to a gate electrode (14).

As to claim 16, Lee also discloses (page 5, claim 18) that the first electrode (12) is biased by a common voltage.

Allowable Subject Matter

5. Claims 2 and 13-15 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tarifur R Chowdhury whose telephone number is (571) 272-2287. The examiner can normally be reached on M-Th (6:30-5:00) Friday Off.

Art Unit: 2871

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Kim can be reached on (571) 272-2293. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TRC January 05, 2004

TARIFUR R. CHOWDHURY